



**PERFORMANCE
MEASUREMENT**

**ELECTRONIC DATA
USER'S GUIDE**

Cohort II
1999-2001

MEDICARE HEALTH



OUTCOMES SURVEY

**CENTERS
FOR MEDICARE
& MEDICAID
SERVICES**

**HEALTH
SERVICES
ADVISORY
GROUP**

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Preface

The Centers for Medicare & Medicaid Services (CMS) is committed to monitoring the quality of care provided by Medicare + Choice Organizations (M+COs). The Medicare Health Outcomes Survey (HOS) is the first health outcomes measure for the Medicare population in managed care settings. The HOS design is based on a randomly selected sample of individuals from each participating M+CO, and measures physical and mental health over a two-year period.

The HOS measure is an assessment of a health plan's ability to maintain or improve the physical and mental health functioning of its Medicare beneficiaries over a two-year period of time. The functional status of the elderly is known to decline over such a period.¹ The HOS results were computed using a set of case mix/risk adjustment factors, adjusting for expected differences. The differences between the baseline and the two-year follow up physical and mental health scores are presented in terms of the percentages of beneficiaries who were better, the same, or worse than expected. The resulting aggregation of these scores across beneficiaries within a plan yields the HOS plan level performance measurement results. These results are specific to each individual plan. HOS results are an important part of CMS' quality improvement activities, as current law authorizes Quality Improvement Organizations (QIOs) to review the quality of care provided to people with Medicare. The goals of HOS are to help beneficiaries make informed health care choices and to promote quality improvement.

The *Cohort II* Performance Measurement results (released in September 2002) describe a change in health over time, which is characterized in terms of the direction and magnitude for all beneficiaries in a given plan. The results describe the outcomes of a randomly selected set of members from each participating plan between 1999 and 2001. As part of the survey implementation policy, M+COs have been notified that the beneficiary level data used to generate the *Cohort II* Performance Measurement results are available and will be forwarded to their plan upon request.

This **Electronic Data User's Guide** is designed to assist QIOs with the use of the accompanying beneficiary level *Cohort II* Performance Measurement Data File. These data are intended to support M+CO and QIO quality improvement activities.

¹ National Committee for Quality Assurance. *HEDIS 1999, Volume 6: Medicare Health Outcomes Survey Manual*. Washington DC: NCQA Publication, 1999.

Introduction

BACKGROUND

The CMS, in collaboration with the National Committee for Quality Assurance (NCQA), launched the first Medicare managed care outcomes measure in the Health Plan Employer Data and Information Set (HEDIS[®]) in 1998.² The measure includes the most recent advances in summarizing physical and mental health outcomes results and appropriate risk adjustment techniques. This measure was initially titled Health of Seniors and was renamed the Medicare Health Outcomes Survey during the first year of implementation. This name change was intended to reflect the inclusion of Medicare recipients in the sampling methodology who are disabled and under age 65.

The HOS measure was developed under the guidance of a Technical Expert Panel (TEP) comprised of individuals with specific expertise in the health care industry and outcomes measurement. The TEP continues to oversee and develop the science of the HOS measure. The CMS has contracted with NCQA to support the standardized administration of the HOS survey, including selecting, training, and certifying independent survey vendors that the plans contract with to administer the survey.

In 1998, CMS required Medicare Managed Care Organizations (MCOs) with contracts in effect on or before January 1, 1997 to participate in HOS. In 1999, CMS required all M+COs and section 1876 risk and cost health plans with contracts in place on or before January 1, 1998 to participate in HOS. In addition, selected PACE (Program of All-inclusive Care for the Elderly) plans, EverCare plans and demonstration risk plans participated in the second year administration. The 1999 survey administration also marked the first year in which a Spanish language version of the survey was incorporated into the survey protocol. In 2001, all plans with contracts in place on or before January 1, 1998 that participated in the *Cohort II Baseline* survey in 1999 were required to participate in the *Cohort II Follow Up* survey.

Data collection for *Cohort II Baseline* occurred in 1999, and data reports were distributed to M+COs and QIOs in 2000. *Cohort II Baseline* beneficiary level electronic data were disseminated to QIOs in 2000. Data collection for *Cohort II Follow Up* occurred in 2001. These data were combined with *Cohort II Baseline* data to create a merged *Cohort II* Performance Measurement Data File. This file was used to generate the *Cohort II* Performance Measurement Reports, which were distributed to the M+COs and QIOs in September 2002.

For further background on the Medicare HOS, please refer to the *Cohort II* Performance Measurement Report. Additionally, the Medicare HOS Information and Technical Support Telephone Line (1-888-880-0077), as well as the HOS E-mail Address (hos.azpro@sdps.org), are available to provide technical assistance.

² HEDIS[®] is a registered trademark of the National Committee for Quality Assurance.

MEDICARE HEALTH OUTCOMES SURVEY INSTRUMENT

The HOS instrument consists of the SF-36[®] Health Survey^{3,4} and additional questions, including those used for case mix and risk adjustment purposes.

SF-36[®] Health Survey

The SF-36[®] is a multi-purpose, short-form health survey with only 36 questions, which yields physical and mental health summary measures. It is a generic measure, as opposed to one that targets a specific age, disease, or treatment group. As documented in more than 2,500 publications, the SF-36[®] has proven useful in both general and specific populations, comparing the relative burden of diseases, differentiating the health benefits produced by a wide range of different treatments, and screening individual patients. The most complete information about the history and development of the SF-36[®], its psychometric evaluation, studies of reliability and validity, and normative data is available in two user's manuals.^{4,5}

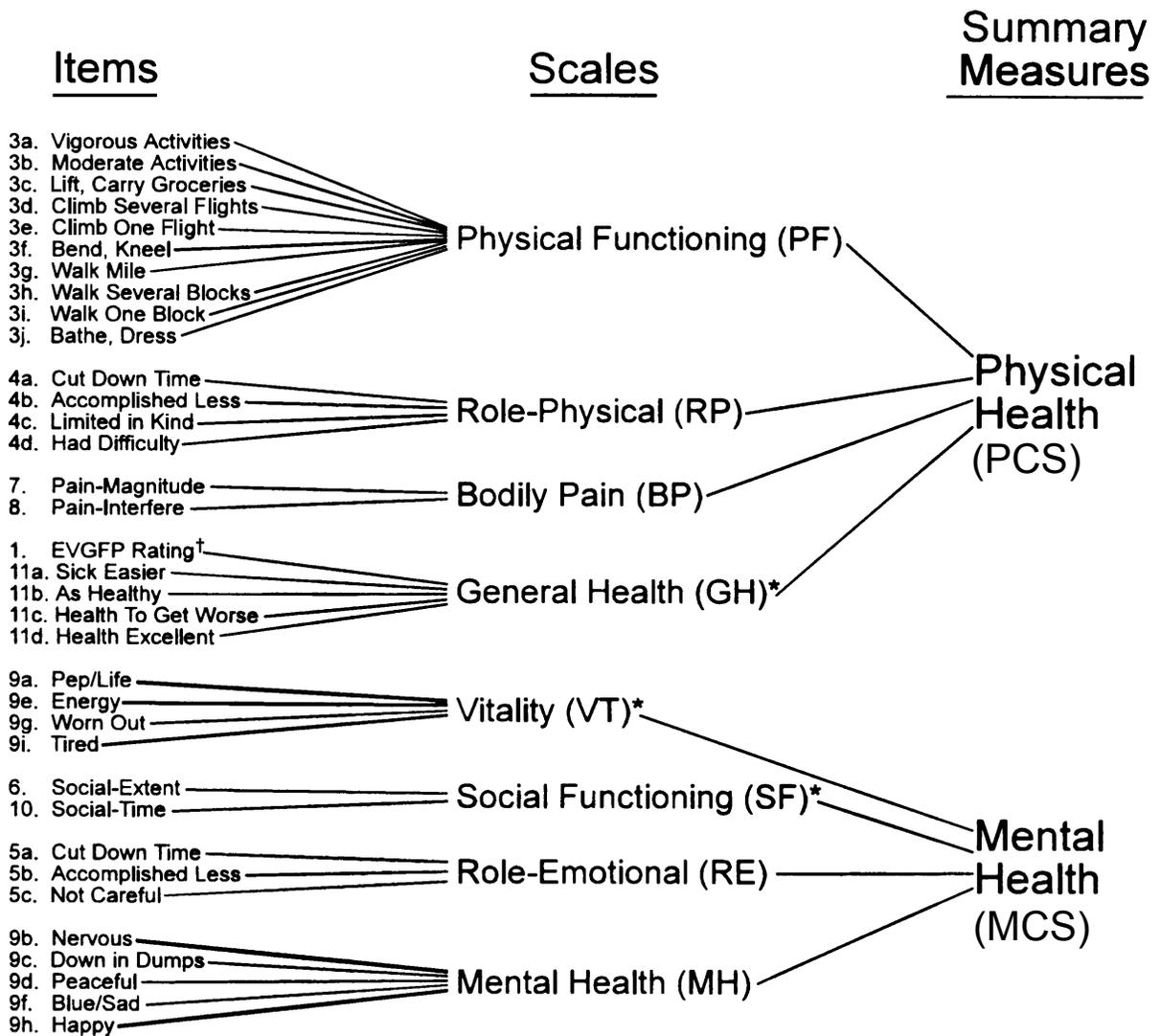
Figure 1 on page 4 illustrates the taxonomy of items and concepts underlying the construction of the SF-36[®] Physical Component Summary (PCS) and Mental Component Summary (MCS) measures. The SF-36[®] is scored from 0 to 100 points, with higher scores indicating better functioning on both the individual scales and summary measures (PCS and MCS). The HOS individual scale scores, as well as the PCS and MCS scores, have been normed to the values for the 1998 general US population, so that a score of fifty represents the national average for a given scale or summary score. In addition, the norm based score for the 1998 general US population has a standard deviation (SD) of ten points. It is important to note however, that the 1998 general population **elderly** norms reflect a PCS mean score of 42.6 and an MCS mean score of 52.0.

³ SF-36[®] is a registered trademark of the Medical Outcomes Trust.

⁴ Ware JE, Snow KK, Kosinski M, Gandek B. *SF-36[®] Health Survey Manual and Interpretation Guide*. Boston, MA: The Health Institute, 1993.

⁵ Ware JE, Kosinski M. *SF-36[®] Physical and Mental Health Summary Scales: A Manual for Users of Version 1, Second Edition*. Lincoln, RI: QualityMetric, Incorporated, 2001.

FIGURE 1: SF-36[®] MEASUREMENT MODEL



* Significant correlation with other summary measure

† EVGFP Rating: In general, would you say your health is:
Excellent Very Good Good Fair Poor

Source: Ware JE, Kosinski M, Keller SD. *SF-36[®] Physical and Mental Health Summary Scales: A User's Manual*. Boston, MA: The Health Institute, 1994.

Case Mix Adjustment Questions

In general, risk adjustment is a method which adjusts for multiple factors which may impact an outcome of interest. Case mix adjustment, which is a type of risk adjustment, adjusts the resulting data for patient characteristics that are known to be related to systematic biases in the way people respond to survey questions. In the case of the HOS Performance Measurement Data, multivariate statistical methods were used for case mix adjustment so all plans would be as equal as possible in terms of demographic and socioeconomic characteristics, chronic conditions, initial health status, and other design variables. The Medicare HOS Performance Measurement case mix methodology was originally created by the Health Assessment Lab (HAL).

The HOS instrument also includes questions on demographics, chronic medical conditions, and activities of daily living (ADLs). Demographics include questions on beneficiary age, gender, race, education, marital status, and income.

Thirteen chronic medical conditions are included in the questionnaire. These conditions are: hypertension; angina pectoris or coronary artery disease; congestive heart failure; myocardial infarction or heart attack; other heart conditions, such as heart valve defects or arrhythmias; stroke; emphysema, asthma, or chronic obstructive pulmonary disease; inflammatory bowel disease, including Crohn's disease and ulcerative colitis; arthritis of the hip or knee; arthritis of the hand or wrist; sciatica; diabetes, hyperglycemia, or glycosuria; and any cancer (other than skin cancer).

Six ADLs were included in the HOS survey to determine self-reported difficulty with performance of daily tasks. Activities included bathing, dressing, eating, getting in or out of chairs, walking, and using the toilet.

For further information on the Medicare HOS instrument, please refer to the *Cohort II Performance Measurement Report* and *HEDIS® 2001, Volume 6: Specifications for the Medicare Health Outcomes Survey* (referred to as the *2001 HOS Manual*).⁶

⁶National Committee for Quality Assurance. *HEDIS® 2001, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2001.

Methodology

SAMPLING METHODOLOGY

The HOS measure is administered annually to a randomly selected sample of individuals at baseline from each M+CO. The CMS selects the random sample for each baseline cohort. The sampling methodology is dependent upon the plan's population. For M+COs with Medicare populations of more than 1,000 members, a simple random sample of 1,000 members is selected for the baseline survey. For M+COs with populations of 1,000 members or less, all eligible members are included in the sample for the baseline survey.

For the *Cohort II Follow Up* sample, CMS identified beneficiaries from the *Cohort II Baseline* sample who were eligible for remeasurement. Members were eligible for remeasurement if a PCS and/or MCS score was able to be calculated. Beneficiaries were excluded from *Cohort II Follow Up* if they disenrolled from their M+CO subsequent to the *Cohort II Baseline* survey, or were deceased subsequent to the *Cohort II Baseline* survey. Although deceased beneficiaries are excluded from the *Cohort II Follow Up* sample, CMS includes deceased beneficiaries when calculating the HOS performance measurement results.⁷

DISTRIBUTION OF THE SAMPLE

The 1999 *Cohort II Baseline* Medicare HOS included a random sample of 301,184 beneficiaries from 283 M+COs, including both the aged and disabled.⁸ Of the 301,184 individuals sampled, 66% (199,369) completed the baseline survey. Of the 199,369 respondents, 185,539 were seniors (age 65 or older) who returned a completed survey. A completed survey was defined as one that could be used to calculate a PCS and/or MCS score. During the two years between the 1999 *Cohort II Baseline* survey and the 2001 *Cohort II Follow Up* survey, a number of M+COs discontinued offering managed care to Medicare beneficiaries or consolidated with other health plans. As a result of these changes, 160 reporting units (M+COs) and 124,835 respondents remained in HOS. For purposes of plan comparisons, this group of 124,835 beneficiaries comprises the *Cohort II Performance Measurement analytic sample*.

At the time of follow up, 82,679 beneficiaries were seniors age 65 or older who had completed a baseline survey and were still alive and enrolled in their original M+CO. These beneficiaries are referred to as the *Cohort II Follow Up eligible sample*. Of the 82,679 beneficiaries in the eligible sample, a total of 68,742 returned a follow up survey that could be used to estimate PCS and/or MCS scores. These 68,742 beneficiaries comprise the *Cohort II Follow Up respondent sample*.

⁷ National Committee for Quality Assurance. *HEDIS® 2001, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2001.

⁸ National Committee for Quality Assurance. *HEDIS 1999, Volume 6: Medicare Health Outcomes Survey Manual*. Washington DC: NCQA Publication, 1999.

The performance measurement results are based on the analytic sample of 124,835 beneficiaries and not the entire population sampled at baseline and follow up. At the national level, 8,930 beneficiaries died between baseline and the two-year follow up. Another 33,226 beneficiaries voluntarily disenrolled from their M+COs during the same two-year period. Of the 82,679 individuals eligible for follow up, 68,742 beneficiaries responded; 12,758 beneficiaries did not respond to the follow up survey; and 1,179 beneficiaries were determined to be invalid members at follow up.⁹ It is important to remember that a respondent is defined as an eligible beneficiary who returned a survey that could be used to estimate a PCS and/or MCS score.

For further information on the distribution of the analytic sample at the plan and state level, please refer to the Executive Summary of the *Cohort II* Performance Measurement Report.

SCORING SF-36[®] PHYSICAL AND MENTAL HEALTH SUMMARY MEASURES

Physical and mental health status are estimated, respectively, using the PCS and MCS scoring algorithms recommended by the developers of the SF-36[®] Health Survey, as documented in detail elsewhere.¹⁰ Briefly, these norm-based algorithms yield favorably scored (i.e., higher is better) scales that have a mean of 50 and a standard deviation of 10 for the 1998 general US population. It is important to note however, that the 1998 general population **elderly** norms reflect a PCS mean score of 42.6 and an MCS mean score of 52.0. For PCS, very high scores indicate no physical limitations; disabilities or declines in well being; high energy level; and a rating of health as “excellent.” For MCS, very high scores indicate frequent positive affect, absence of psychological distress, and no limitations in usual social and role activities due to emotional problems.

Given that the *Cohort II Baseline* survey was fielded in 1999, the means and standard deviations used in scoring PCS and MCS were based on the 1998 National Survey of Functional Health Status. In order to allow for interpretation of PCS and MCS scores across all of the cohorts of data, the weights (i.e. component scoring coefficients) used to generate the summary scores are the original standardized weights recommended by the developers and used during the first four baseline cohorts of data.¹¹

The HOS is among the first large scale surveys to take advantage of improved algorithms for scoring the PCS and MCS summary measures for respondents with missing data. The improved algorithms were adopted to recapture respondents who had one or more missing SF-36[®] responses. Most previous studies have used the “half scale” rule for imputing scale scores for those with missing data. This solution, which was developed during the Health Insurance Experiment more than 20

⁹ Invalid members at *follow up* meet one of the following criteria: not enrolled in the M+CO; have an incorrect address and phone number; or have a language barrier.

¹⁰ Ware JE, Kosinski M. *SF-36[®] Physical and Mental Health Summary Scales: A Manual for Users of Version 1, Second Edition*. Lincoln, RI: QualityMetric, 2001.

¹¹ Ware JE, Kosinski M. *SF-36[®] Physical and Mental Health Summary Scales: A User's Manual*. Lincoln, RI: QualityMetric, 2001.

years ago, is widely used in health status research.¹² However, the “half scale” approach has several disadvantages, including: being applicable only to those with at least half of the items answered for each of the eight scales; introducing a bias in score estimates because answered items are simply averaged in estimating missing items; and failing to provide an estimation strategy for PCS and MCS for those with a missing scale score.

The improved scoring algorithms use the missing data estimation (MDE) utility. The MDE scoring utility, which was validated using item response theory, calculates an unbiased score as long as at least one item is answered within each scale. Further, the MDE software uses regression methods to score PCS and MCS for those with one scale missing. As documented elsewhere, the MDE scoring algorithms have been evaluated in the 1998 general US population and in the HOS.¹³

CASE MIX ADJUSTMENT

There were six main categories of actual outcomes used in the analysis of the *Cohort II* Performance Measurement data: (1) alive and PCS better; (2) alive and PCS same; (3) dead or PCS worse; (4) MCS better; (5) MCS same; and (6) MCS worse. Each beneficiary is classified into one of the three Physical Health categories and one of the three Mental Health categories.

In calculating expected outcomes, separate case mix models were warranted for death (which required extensive case mix control), and for PCS and MCS (which did not require much case mix control). The development and testing of these models was the subject of extensive analysis, which will be described in more detail in other HOS publications. A series of eight different death models, three different PCS models, and three different MCS models were used, since all beneficiaries did not have data for all of the independent variables that could be used to calculate an expected score. In other words, each expected outcome for a beneficiary was derived from the “best fit” model, which was based on those variables for which the beneficiary had data. For example, if a beneficiary had all of the required independent variables for Model A (the model containing the highest number of independent variables), then their expected score was calculated using that model. If not, then Model B (the model containing the second highest number of independent variables) was used if all of the required independent variables for this model were available, and so on. One model was used for each beneficiary, and there were no outcome predictions made with missing data. Details about the variables included in each model are provided in Table 1 on page 9.

For further information, please refer to the *Cohort II* Performance Measurement Report.

¹² Ware JE, Brook RH, Davies-Avery A, Williams K, Stewart AL, Rogers WH, *et al.* *Model of Health and Methodology*. Santa Monica, CA: RAND Corporation, 1980; R-1987/1-HEW. (*Conceptualization and Measurement of Health for Adults in the Health Insurance Study; vol. 1*).

¹³ Kosinski MK, Bayliss M, Bjorner JB, Ware JE. Improving Estimates of SF-36[®] Health Survey Scores for Respondents in Missing Data. *Medical Outcomes Trust Monitor*, Fall 2000; 5 (1): 8-10.

**TABLE 1: COVARIATES USED IN ESTIMATION OF EXPECTED MORTALITY
AND CHANGE IN PCS/MCS SCORES**

DEATH MODEL COVARIATES

DEMOGRAPHIC AND SOCIOECONOMIC VARIABLES

Age (linear), Age 75+, Age 85+ (Models A-H)
 Gender (Models A-H)
 Age and Gender interaction (Models A-H)
 Race/Ethnicity (Black/African-American, Hispanic, Asian/Pacific Islander) – HOS (Models A-D),
 CMS (Models E-H)
 On Medicaid or not on Medicaid (Models A-H)
 Home owner or non-home owner (Models A-D)
 High school graduate or not high school graduate (Models A-D)
 Married or not married (single, divorced, widowed, separated) (Models A-D)
 Income less than \$20,000 or reported income of \$20,000 or greater (Models A, C)

CHRONIC CONDITIONS

Presence or absence of each of 13 chronic conditions: hypertension, myocardial infarction, angina/coronary disease, congestive heart failure, other heart conditions, stroke, pulmonary disease, gastrointestinal disorders, arthritis of hip or knee, arthritis of hand or wrist, sciatica, diabetes, cancer other than skin cancer (Models A, B)
 Treatment or non-treatment for 4 cancer types: colon/rectal, lung, breast, prostate (Models A, B)
 Mean number of conditions in 4 groups with varying relations to death (Models C-F):
 Strong relationship (congestive heart failure, any cancer, colon/rectal cancer, lung cancer)
 Moderate relationship (pulmonary, diabetes, stroke, myocardial infarction)
 Weak relationship (breast cancer, hypertension, angina/coronary artery disease, other heart)
 Negative relationship (gastrointestinal, arthritis [both types], sciatica, prostate cancer)

BASELINE FUNCTIONAL STATUS

SF-36[®] Physical Functioning/Activities of Daily Living Index (Models A-E)
 SF-36[®] General Health scale (Models A-E)
 SF-36[®] Social Functioning scale (Models A-E)
 One-item measure of General Health compared to others (Models A-E)
 Baseline PCS and MCS (Models F-G)

SURVEY ADMINISTRATION

Telephone or mail survey (Models A-G)

PCS/MCS MODEL COVARIATES

Age (linear), Age 75+, Age 85+ (PCS/MCS Models A-C)
 Gender (PCS/MCS Models A-C)
 Age and Gender interaction (PCS/MCS Models A-C)
 Race/Ethnicity (Black/African-American, Hispanic, Asian/Pacific Islander) – HOS (PCS/MCS Models A-B),
 CMS (MCS Model C)
 On Medicaid or not on Medicaid (PCS/MCS Models A-C)
 Home owner or non-home owner (PCS/MCS Models A-B)
 High school graduate or not high school graduate (PCS/MCS Models A-B)
 Married or not married (single, divorced, widowed, separated) (PCS/MCS Models A-B)
 Income less than \$20,000 or reported income of \$20,000 or greater (PCS/MCS Model A)

Performance Measurement Electronic Data File Characteristics

Each QIO level *Cohort II* Performance Measurement Electronic Data File was derived from the *Cohort II Performance Measurement analytic sample* of 124,835. As discussed in the methodology, the *Cohort II* Performance Measurement results are based on the analytic sample of 124,835 and not the entire population sampled at baseline and follow up.

Beneficiaries in the *Cohort II Performance Measurement analytic sample* were classified into a number of categories at the time of performance measurement. These categories include: respondents; non-respondents; invalid members at follow up⁹; those who died within two years of the baseline survey; and those who voluntarily disenrolled from their M+CO prior to follow up. These beneficiaries were included in the QIO level *Cohort II* Performance Measurement Electronic Data File.

Please note, in accordance with CMS regulations, data on those beneficiaries that disenrolled from their M+CO prior to the time of follow up were not included in the M+CO level Cohort II Performance Measurement Electronic Data Files, although they were included in the calculation of the performance measurement results.

There are a total of 259 variables in the *Cohort II* Performance Measurement Electronic Data File. A detailed list of these variables including valid values is included in Appendix B. The following is an overview of the variables included in the *Cohort II* Performance Measurement Electronic Data File.

PLAN LEVEL VARIABLES (VARIABLES 1-12)

Data from this section are taken from the header record of the baseline and follow up data files, as well as information obtained from the CMS May 2002 Monthly Report of Managed Care Health Plans (<http://cms.hhs.gov/healthplans/statistics/monthly/>). These variables include *Plan Reporting Unit* (#1), which is the unit of analysis for the *Cohort II* Performance Measurement Report. Another important variable in this group is *Plan State* (#9), which is the two letter state abbreviation as listed in the CMS May 2002 Monthly Report of Managed Care Health Plans. This was the state level unit of analysis for the *Cohort II* Performance Measurement Report.

SURVEY LEVEL VARIABLES (VARIABLES 13-209)

This section contains a randomly assigned, anonymous beneficiary identification number (#13) and survey information from the 57 questions comprising the HOS instrument for both baseline and follow up (excluding the name of the person responding to the survey, Q56, which is included in the beneficiary level variables section). Other than the anonymous beneficiary ID, the information presented in this section represents each beneficiary's actual answers to the specific questions. These data include beneficiary responses to questions pertaining to the SF-36[®], health status indicators, chronic medical conditions, depression, ADLs, demographics, and who completed the survey (Q55). This section also includes the valid values associated with each question. The SF-36[®]

(questions one and three through eleven in the HOS instrument) is used to obtain physical and mental health summary measures. The beneficiary level data from both baseline and follow up can potentially be used by QIOs and M+COs to perform quality improvement initiatives.

SURVEY ADMINISTRATION VARIABLES (VARIABLES 210-218)

The variables that are presented in this section include the mode of survey administration, which indicates whether or not the beneficiary completed a baseline or follow up survey by mail or telephone (#210-211), the date the survey was completed (#212-213), and the language in which the survey was completed (#214-215). The section also includes the survey vendor at baseline and follow up (#216-217). The proxy status variable (#218), which was assigned to members at follow up, identifies whether a member or a proxy completed the survey at baseline and at follow up. In addition, when a proxy is identified for both surveys, this variable provides information about whether the proxy is the same or a different proxy when sufficient information is available.

SF-36[®] SUMMARY MEASURES (VARIABLES 219-222)

The variables that are presented in this section include the unadjusted PCS and MCS scores at baseline and follow up (#219-222). These scores were generated by the MDE scoring utility.

BENEFICIARY LEVEL VARIABLES (VARIABLES 223-259)

Data from this section are taken primarily from the member level record of the baseline and follow up data files. These data were obtained from the CMS Medicare Enrollment Database (EDB) at the time the sample files were created. The *Health Insurance Claim (HIC) Number* (#223), which is a unique identifier used to identify each beneficiary, is included in this section. The HIC number from the member level record at baseline is used except for the 1,023 beneficiaries for which the HIC number had changed at follow up. For these beneficiaries, the HIC number at follow up is utilized. Beneficiary addresses (mailing address, county, state, and zip code) from both baseline and follow up are included in this section. Beneficiary race, gender, date of birth, and reason for entitlement from both baseline and follow up are also included in this section. The *Beneficiary's Baseline Date of Birth* (#241) was utilized to derive age in the HOS performance measurement analysis. The randomly assigned unique beneficiary number (#258) matches the unique number that was assigned to the beneficiaries in the M+CO Electronic Data Files. This number will be blank for those beneficiaries who had voluntarily disenrolled from their plans prior to the follow up sampling.

CAUTIONARY NOTES

- ◆ The HOS Questionnaire contains multiple skip patterns. Caution should be exercised when examining selected questions that involve skip pattern responses. Please refer to Appendix B for additional information.
- ◆ Some demographic variables (birth year, race, and gender) were obtained from the CMS Medicare Enrollment Database (EDB) at the time of sampling and also from the respondent provided survey data. Inconsistencies between these two data sources have been identified. Caution should be exercised when examining these variables.
- ◆ For the purpose of calculating performance measurement results, beneficiaries were considered dead if they died within two years of completing the baseline survey and did not complete a follow up survey. The *Performance Measurement Analytic Sample Indicator* (#259) can be used to identify the status of each beneficiary in this file.

For further details on the structure of these data, please refer to Appendix B. Additionally, the Medicare HOS Information and Technical Support Telephone Line (1-888-880-0077), as well as the HOS E-mail Address (hos.azpro@sdps.org), are available to provide technical assistance.

Appendix A

Quality Assurance of the Data

DATA RECEIPT

Cohort II Baseline and *Cohort II Follow Up* data were transmitted to Health Services Advisory Group (HSAG) from NCQA. The data were transmitted on CD-ROMs containing individual ASCII flat files for each participating M+CO. The ASCII files contained plan, beneficiary, and survey information as specified in the HOS Manual.^{14, 15}

DATA CLEANING AND EDITING

Data consistency checks are performed by reviewing the entire HOS data set for out of range values. To verify the presence of unique beneficiaries in the HOS data file, the file is examined for duplicate Health Insurance Claim (HIC) numbers. All dates contained within the data file are verified to correspond to the appropriate range. Frequency distributions of all categorical variables as well as cross tabulations by vendor are performed to identify both out of range values and data shifts in value assignment. The cross tabulations are performed using the entire HOS data file and also specified subsets of the data file.

After the HOS data file is cleaned and edited, a final data set is produced. This final data set serves as the source data set for the performance measurement analysis.

For further information on the quality assurance of the data, please refer to the *Cohort II Performance Measurement Report*. Additionally, the Medicare HOS Information and Technical Support Telephone Line (1-888-880-0077), as well as the HOS E-mail Address (hos.azpro@sdps.org), are available to provide technical assistance.

¹⁴ National Committee for Quality Assurance. *HEDIS® 1999, Volume 6: Medicare Health Outcomes Survey Manual*. Washington DC: NCQA Publication, 1999.

¹⁵ National Committee for Quality Assurance. *HEDIS® 2001, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2001.

Appendix B

Performance Measurement Electronic Data File Specifications

The following table describes the file layout by variable position for the *Cohort II* Performance Measurement Electronic Data File. The file is a SAS data file and was generated using the SAS Version 6 Engine. There are a total of 259 variables in the data file.

In addition to the variable number, the variable name/description, type, length, and additional information (including valid values) are provided. For the survey level items, the exact text of each question can be obtained by referring to the Medicare HOS Manuals.

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
1	<i>R2RPTUNT</i> Plan Reporting Unit	Char	6	Unique identifier used to identify each M+CO. This was the plan level unit of analysis for the Performance Measurement Report.
2	<i>C2CNTRNM</i> Plan Contract Number at Baseline	Char	5	Unique contract number at the time of baseline sampling (1999).
3	<i>R2CNTRNM</i> Plan Contract Number at Follow Up	Char	5	Unique contract number at the time of follow up sampling (2001).
4	<i>C2MARKET</i> Plan Market Area Code at Baseline	Num	8	CMS market area code at the time of baseline sampling (1999).
5	<i>R2MARKET</i> Plan Market Area Code at Follow Up	Char	1	CMS market area code at the time of follow up sampling (2001).
6	<i>C2MANAME</i> Plan Market Area Name at Baseline	Char	50	CMS market area name at the time of baseline sampling (1999).
7	<i>R2MANAME</i> Plan Market Area Name at Follow Up	Char	50	CMS market area name at the time of follow up sampling (2001).
8	<i>P2PLANNM</i> Plan Name	Char	50	Plan Name as listed in the CMS May 2002 Monthly Report of Managed Care Health Plans.
9	<i>P2PLANST</i> Plan State	Char	2	Two letter state abbreviation as listed in the CMS May 2002 Monthly Report of Managed Care Health Plans. This was the state level unit of analysis for the Performance Measurement Report.

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
10	<i>P2PLMODL</i> Plan Model	Char	5	Plan model as listed in the CMS May 2002 Monthly Report of Managed Care Health Plans.
11	<i>P2PLTYPE</i> Plan Type	Char	3	Plan type as listed in the CMS May 2002 Monthly Report of Managed Care Health Plans.
12	<i>P2PLTXST</i> Plan Tax Status	Char	4	Plan tax status as listed in the CMS May 2002 Monthly Report of Managed Care Health Plans.
13	<i>C2PATID</i> Anonymous Patient ID	Num	8	Unique number assigned to each beneficiary in the baseline sample (1 to 310,424).
14	<i>C2GENHTH</i> Baseline Survey: General Health Question (Q1)	Num	4	Beneficiary's response to Q1 from the <i>Cohort II Baseline</i> survey: <i>In general, would you say your health is:</i> 1 = Excellent 2 = Very good 3 = Good 4 = Fair 5 = Poor
15	<i>C2HTRN</i> Baseline Survey: Health Transition Question (Q2)	Num	4	Beneficiary's response to Q2 from the <i>Cohort II Baseline</i> survey: <i>Compared to one year ago, how would you rate your health in general now?</i> 1 = Much better now than one year ago 2 = Somewhat better now than one year ago 3 = About the same as one year ago 4 = Somewhat worse now than one year ago 5 = Much worse now than one year ago
16	<i>C2VIGACT</i> Baseline Survey: Vigorous Activities Question (Q3a)	Num	4	Beneficiary's response to Q3a from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Vigorous activities</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
17	<i>C2MODACT</i> Baseline Survey: Moderate Activities Question (Q3b)	Num	4	Beneficiary's response to Q3b from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Moderate activities</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all

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18	<i>C2LIFT</i> Baseline Survey: Lifting Groceries Question (Q3c)	Num	4	Beneficiary's response to Q3c from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Lifting or Carrying Groceries</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
19	<i>C2CLMBSV</i> Baseline Survey: Climbing Several Flights of Stairs Question (Q3d)	Num	4	Beneficiary's response to Q3d from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Climbing several flights of stairs</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
20	<i>C2CLMBON</i> Baseline Survey: Climbing One Flight of Stairs Question (Q3e)	Num	4	Beneficiary's response to Q3e from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Climbing one flight of stairs</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
21	<i>C2BEND</i> Baseline Survey: Bending, Kneeling, or Stooping Question (Q3f)	Num	4	Beneficiary's response to Q3f from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Bending, kneeling, or stooping</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
22	<i>C2WLKMI</i> Baseline Survey: Walking More than a Mile Question (Q3g)	Num	4	Beneficiary's response to Q3g from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Walking more than a mile</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
23	<i>C2WLKBKS</i> Baseline Survey: Walking Several Blocks Question (Q3h)	Num	4	Beneficiary's response to Q3h from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Walking several blocks</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all

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24	<i>C2WLK1BK</i> Baseline Survey: Walking One Block Question (Q3i)	Num	4	Beneficiary's response to Q3i from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Walking one block</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
25	<i>C2BATHDR</i> Baseline Survey: Bathing and Dressing Question (Q3j)	Num	4	Beneficiary's response to Q3j from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Bathing or dressing yourself</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
26	<i>C2PCUTTM</i> Baseline Survey: Physical Health Limiting Time Spent on Activities Question (Q4a)	Num	4	Beneficiary's response to Q4a from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of your physical health?</i> <u>Cut down on the amount of time you spent on work or other activities</u> 1 = Yes 2 = No
27	<i>C2PACMPL</i> Baseline Survey: Physical Health Limiting Amount Accomplished Question (Q4b)	Num	4	Beneficiary's response to Q4b from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of your physical health?</i> <u>Accomplished less than you would like</u> 1 = Yes 2 = No
28	<i>C2PLMTKW</i> Baseline Survey: Physical Health Limiting the Kind of Activities Question (Q4c)	Num	4	Beneficiary's response to Q4c from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of your physical health?</i> <u>Were limited in the kind of work or other activities</u> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
29	<i>C2PDIFWK</i> Baseline Survey: Physical Health Causing Difficulty Performing Activities Question (Q4d)	Num	4	Beneficiary's response to Q4d from the <i>Cohort II</i> Baseline survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of your physical health?</i> <u>Had difficulty performing the work or other activities</u> 1 = Yes 2 = No
30	<i>C2ECUTTM</i> Baseline Survey: Emotional Problems Limiting Time Spent on Activities Question (Q5a)	Num	4	Beneficiary's response to Q5a from the <i>Cohort II</i> Baseline survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i> <u>Cut down on the amount of time you spent on work or other activities</u> 1 = Yes 2 = No
31	<i>C2EACMPL</i> Baseline Survey: Emotional Problems Limiting Amount Accomplished Question (Q5b)	Num	4	Beneficiary's response to Q5b from the <i>Cohort II</i> Baseline survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i> <u>Accomplished less than you would like</u> 1 = Yes 2 = No
32	<i>C2ENTCRF</i> Baseline Survey: Emotional Problems Limiting Carefulness Question (Q5c)	Num	4	Beneficiary's response to Q5c from the <i>Cohort II</i> Baseline survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i> <u>Didn't do work or other activities as carefully as usual</u> 1 = Yes 2 = No
33	<i>C2SOCLMT</i> Baseline Survey: Extent Health Interfering with Social Activities Question (Q6)	Num	4	Beneficiary's response to Q6 from the <i>Cohort II</i> Baseline survey: <i>During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities...?</i> 1 = Not at all 2 = Slightly 3 = Moderately 4 = Quite a bit 5 = Extremely

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
34	<i>C2PNMAGT</i> Baseline Survey: Bodily Pain Question (Q7)	Num	4	Beneficiary's response to Q7 from the <i>Cohort II Baseline</i> survey: <i>How much bodily pain have you had during the past 4 weeks?</i> 1 = None 2 = Very mild 3 = Mild 4 = Moderate 5 = Severe 6 = Very severe
35	<i>C2PNINTF</i> Baseline Survey: Pain Interfering with Work Question (Q8)	Num	4	Beneficiary's response to Q8 from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much did pain interfere with your normal work?</i> 1 = Not at all 2 = A little bit 3 = Moderately 4 = Quite a bit 5 = Extremely
36	<i>C2FULPEP</i> Baseline Survey: Full of Pep Question (Q9a)	Num	4	Beneficiary's response to Q9a from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel full of pep?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
37	<i>C2NERVS</i> Baseline Survey: Nervous Question (Q9b)	Num	4	Beneficiary's response to Q9b from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you been a very nervous person?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
38	<i>C2DNDMPS</i> Baseline Survey: Down in the Dumps Question (Q9c)	Num	4	Beneficiary's response to Q9c from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt so down in the dumps that nothing could cheer you up?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
39	<i>C2PCEFUL</i> Baseline Survey: Calm and Peaceful Question (Q9d)	Num	4	Beneficiary's response to Q9d from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt calm and peaceful?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
40	<i>C2ENERGY</i> Baseline Survey: Lots of Energy Question (Q9e)	Num	4	Beneficiary's response to Q9e from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you have a lot of energy?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
41	<i>C2BLSAD</i> Baseline Survey: Downhearted and Blue Question (Q9f)	Num	4	Beneficiary's response to Q9f from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt downhearted and blue?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time

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42	<i>C2WRNOUT</i> Baseline Survey: Feeling Worn Out Question (Q9g)	Num	4	Beneficiary's response to Q9g from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel worn out?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
43	<i>C2HAPPY</i> Baseline Survey: Happy Question (Q9h)	Num	4	Beneficiary's response to Q9h from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you been a happy person?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
44	<i>C2TIRED</i> Baseline Survey: Feeling Tired Question (Q9i)	Num	4	Beneficiary's response to Q9i from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel tired?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
45	<i>C2SCLACT</i> Baseline Survey: Amount of Time Health Interfering with Social Activities Question (Q10)	Num	4	Beneficiary's response to Q10 from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities?</i> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time

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46	C2SCKESY Baseline Survey: Sick Easier Question (Q11a)	Num	4	Beneficiary's response to Q11a from the <i>Cohort II Baseline</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I seem to get sick a little easier than other people</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
47	C2ASHLTH Baseline Survey: As Healthy Question (Q11b)	Num	4	Beneficiary's response to Q11b from the <i>Cohort II Baseline</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I am as healthy as anybody I know</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
48	C2HWHSE Baseline Survey: Future Health Question (Q11c)	Num	4	Beneficiary's response to Q11c from the <i>Cohort II Baseline</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I expect my health to get worse</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
49	C2HTEXT Baseline Survey: Excellent Health Question (Q11d)	Num	4	Beneficiary's response to Q11d from the <i>Cohort II Baseline</i> survey: <i>How true or false is each of the following statements for you?</i> <u>My health is excellent</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
50	C2DIFBTH Baseline Survey: Bathing Question (Q12a)	Num	4	Beneficiary's response to Q12a from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Bathing</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty

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51	<i>C2DIFDRS</i> Baseline Survey: Dressing Question (Q12b)	Num	4	Beneficiary's response to Q12b from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Dressing</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
52	<i>C2DIFEAT</i> Baseline Survey: Eating Question (Q12c)	Num	4	Beneficiary's response to Q12c from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Eating</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
53	<i>C2DIFCHR</i> Baseline Survey: Getting In/Out of Chairs Question (Q12d)	Num	4	Beneficiary's response to Q12d from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Getting in or out of chairs</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
54	<i>C2DIFWLK</i> Baseline Survey: Walking Question (Q12e)	Num	4	Beneficiary's response to Q12e from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Walking</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
55	<i>C2DIFTOL</i> Baseline Survey: Using the Toilet Question (Q12f)	Num	4	Beneficiary's response to Q12f from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Using the toilet</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty

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56	<i>C2CPNEXR</i> Baseline Survey: Chest Pain/Pressure on Exertion Question (Q13a)	Num	4	Beneficiary's response to Q13a from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you had any of the following problems</i> <u>Chest pain or pressure when you exercise</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
57	<i>C2CPNRST</i> Baseline Survey: Chest Pain/Pressure at Rest Question (Q13b)	Num	4	Beneficiary's response to Q13b from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you had any of the following problems</i> <u>Chest pain or pressure when resting</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
58	<i>C2SOBFLT</i> Baseline Survey: Orthopnea Question (Q14a)	Num	4	Beneficiary's response to Q14a from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When lying down flat</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
59	<i>C2SOBSIT</i> Baseline Survey: Dyspnea while Sitting/Resting Question (Q14b)	Num	4	Beneficiary's response to Q14b from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When sitting or resting</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
60	<i>C2SOBWLK</i> Baseline Survey: Dyspnea when Walking Less than One Block Question (Q14c)	Num	4	Beneficiary's response to Q14c from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When walking less than one block</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
61	<i>C2SOBSTR</i> Baseline Survey: Dyspnea when Climbing One Flight of Stairs Question (Q14d)	Num	4	Beneficiary's response to Q14d from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When climbing one flight of stairs</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
62	<i>C2NMBFET</i> Baseline Survey: Numbness in Feet Question (Q15a)	Num	4	Beneficiary's response to Q15a from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Numbness or loss of feeling in your feet</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
63	<i>C2ANKSWL</i> Baseline Survey: Ankle/Leg Edema Question (Q15b)	Num	4	Beneficiary's response to Q15b from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Ankles/legs that swell as the day goes on</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
64	<i>C2TINGFT</i> Baseline Survey: Foot Tingling/Burning Question (Q15c)	Num	4	Beneficiary's response to Q15c from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Tingling or burning in your feet especially at night</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
65	<i>C2DECSNS</i> Baseline Survey: Decreased Temperature Sensation in Feet Question (Q15d)	Num	4	Beneficiary's response to Q15d from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Decreased ability to feel hot or cold with your feet</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
66	<i>C2DECHEL</i> Baseline Survey: Sores/Wounds on Feet Question (Q15e)	Num	4	Beneficiary's response to Q15e from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Sores or wounds on your feet that did not heal</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
67	<i>C2PARLYS</i> Baseline Survey: Hemiparalysis/Weakness Question (Q16a)	Num	4	Beneficiary's response to Q16a from the <i>Cohort II Baseline</i> survey: <i>Have you ever had paralysis or weakness on one side of the body?</i> 1 = Yes, I have it 2 = Yes, but it went away 3 = No
68	<i>C2LSTTLK</i> Baseline Survey: Lost Ability to Talk Question (Q16b)	Num	4	Beneficiary's response to Q16b from the <i>Cohort II Baseline</i> survey: <i>Have you ever lost the ability to talk?</i> 1 = Yes, I have lost it 2 = Yes, but it returned 3 = No

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69	<i>C2RDNEW</i> Baseline Survey: Vision Question (Q17)	Num	4	Beneficiary's response to Q17 from the <i>Cohort II Baseline</i> survey: <i>Can you see well enough to read newspaper print?</i> 1 = Yes 2 = No
70	<i>C2HRMOST</i> Baseline Survey: Hearing Question (Q18)	Num	4	Beneficiary's response to Q18 from the <i>Cohort II Baseline</i> survey: <i>Can you hear most of the things people say?</i> 1 = Yes 2 = No
71	<i>C2ACDING</i> Baseline Survey: Acid Indigestion Question (Q19)	Num	4	Beneficiary's response to Q19 from the <i>Cohort II Baseline</i> survey: <i>Do you now have acid indigestion or heartburn?</i> 1 = Yes 2 = No
72	<i>C2CTRURN</i> Baseline Survey: Difficulty Controlling Urination Question (Q20)	Num	4	Beneficiary's response to Q20 from the <i>Cohort II Baseline</i> survey: <i>Do you have difficulty controlling urination?</i> 1 = Yes 2 = No
73	<i>C2HIGHBP</i> Baseline Survey: Hypertension Question (Q21)	Num	4	Beneficiary's response to Q21 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Hypertension or high blood pressure</u> 1 = Yes 2 = No
74	<i>C2ANGCAD</i> Baseline Survey: Angina/Coronary Artery Disease Question (Q22)	Num	4	Beneficiary's response to Q22 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Angina or coronary artery disease</u> 1 = Yes 2 = No
75	<i>C2CHF</i> Baseline Survey: Congestive Heart Failure Question (Q23)	Num	4	Beneficiary's response to Q23 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Congestive heart failure</u> 1 = Yes 2 = No
76	<i>C2AMI</i> Baseline Survey: Myocardial Infarction Question (Q24)	Num	4	Beneficiary's response to Q24 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>A myocardial infarction or heart attack</u> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
77	<i>C2OTHHRT</i> Baseline Survey: Other Heart Conditions Question (Q25)	Num	4	Beneficiary's response to Q25 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Other heart conditions...</u> 1 = Yes 2 = No
78	<i>C2STROKE</i> Baseline Survey: Stroke Question (Q26)	Num	4	Beneficiary's response to Q26 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Stroke</u> 1 = Yes 2 = No
79	<i>C2COPD_E</i> Baseline Survey: COPD Question (Q27)	Num	4	Beneficiary's response to Q27 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Emphysema, asthma, or COPD</u> 1 = Yes 2 = No
80	<i>C2GI_ETC</i> Baseline Survey: Inflammatory Bowel Disease Question (Q28)	Num	4	Beneficiary's response to Q28 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Crohn's disease, ulcerative colitis, or inflammatory bowel disease</u> 1 = Yes 2 = No
81	<i>C2ATHHIP</i> Baseline Survey: Arthritis of Hip/Knee Question (Q29)	Num	4	Beneficiary's response to Q29 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Arthritis of the hip or knee</u> 1 = Yes 2 = No
82	<i>C2ATHHAN</i> Baseline Survey: Arthritis of Hand/Wrist Question (Q30)	Num	4	Beneficiary's response to Q30 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Arthritis of the hand or wrist</u> 1 = Yes 2 = No
83	<i>C2SCIATC</i> Baseline Survey: Sciatica Question (Q31)	Num	4	Beneficiary's response to Q31 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Sciatica</u> 1 = Yes 2 = No
84	<i>C2DIABET</i> Baseline Survey: Diabetes Question (Q32)	Num	4	Beneficiary's response to Q32 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Diabetes, high blood sugar, or sugar in the urine</u> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
85	C2ANYCAN Baseline Survey: Any Cancer Question (Q33)	Num	4	Beneficiary's response to Q33 from the Cohort II Baseline survey: <i>Has a doctor ever told you that you had:</i> <u>Any cancer (other than skin cancer)</u> 1 = Yes 2 = No
86	C2ARTHPN Baseline Survey: Arthritis Pain Question (Q34)	Num	4	Beneficiary's response to Q34 from the Cohort II Baseline survey: <i>If you answered "yes" to questions 29 or 30 above (that you have arthritis), During the past 4 weeks, how would you describe the arthritis pain you usually had?</i> 1 = None 2 = Very mild 3 = Mild 4 = Moderate 5 = Severe
87	C2COLNCA Baseline Survey: Colorectal Cancer Treatment Question (Q35a)	Num	4	Beneficiary's response to Q35a from the Cohort II Baseline survey: <i>If you answered "yes" to question 33 above (that you had cancer), Are you currently under treatment for:</i> <u>Colon or rectal cancer</u> 1 = Yes 2 = No
88	C2LUNGCA Baseline Survey: Lung Cancer Treatment Question (Q35b)	Num	4	Beneficiary's response to Q35b from the Cohort II Baseline survey: <i>If you answered "yes" to question 33 above (that you had cancer), Are you currently under treatment for:</i> <u>Lung cancer</u> 1 = Yes 2 = No
89	C2BRSTCA Baseline Survey: Breast Cancer Treatment Question (Q35c)	Num	4	Beneficiary's response to Q35c from the Cohort II Baseline survey: <i>If you answered "yes" to question 33 above (that you had cancer), Are you currently under treatment for:</i> <u>Breast cancer</u> 1 = Yes 2 = No
90	C2PROSCA Baseline Survey: Prostate Cancer Treatment Question (Q35d)	Num	4	Beneficiary's response to Q35d from the Cohort II Baseline survey: <i>If you answered "yes" to question 33 above (that you had cancer), Are you currently under treatment for:</i> <u>Prostate cancer</u> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
91	<i>C2BACKPN</i> Baseline Survey: Low Back Pain Question (Q36)	Num	4	Beneficiary's response to Q36 from the <i>Cohort II Baseline</i> survey: <i>In the past 4 weeks, how often has low back pain interfered with your usual daily activities?</i> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
92	<i>C2NUMBLG</i> Baseline Survey: Pain, Numbness, Tingling Down Leg Question (Q37)	Num	4	Beneficiary's response to Q37 from the <i>Cohort II Baseline</i> survey: <i>In the past 4 weeks, how often did you have pain, numbness, or tingling that travels down your leg and below your knee?</i> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
93	<i>C2FELTSD</i> Baseline Survey: Two Weeks of Depression Question (Q38)	Num	4	Beneficiary's response to Q38 from the <i>Cohort II Baseline</i> survey: <i>In the past year, have you had 2 weeks or more during which you felt sad, blue or depressed; or when you lost interest or pleasure in things that you usually cared about or enjoyed?</i> 1 = Yes 2 = No
94	<i>C2DEPMCH</i> Baseline Survey: Depression Much of the Time Question (Q39)	Num	4	Beneficiary's response to Q39 from the <i>Cohort II Baseline</i> survey: <i>In the past year, have you felt depressed or sad much of the time?</i> 1 = Yes 2 = No
95	<i>C2DEP2YR</i> Baseline Survey: Depression Most of the Time Question (Q40)	Num	4	Beneficiary's response to Q40 from the <i>Cohort II Baseline</i> survey: <i>Have you ever had 2 years or more in your life when you felt depressed or sad most days, even if you felt okay sometimes?</i> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
96	<i>C2CMPHTH</i> Baseline Survey: Comparative Health Question (Q41)	Num	4	Beneficiary's response to Q41 from the <i>Cohort II Baseline</i> survey: <i>In general, compared to other people your age, would you say that your health is:</i> 1 = Excellent 2 = Very good 3 = Good 4 = Fair 5 = Poor
97	<i>C2SMK100</i> Baseline Survey: Smoked 100 Cigarettes Question (Q42)	Num	4	Beneficiary's response to Q42 from the <i>Cohort II Baseline</i> survey: <i>Have you ever smoked at least 100 cigarettes in your entire life?</i> 1 = Yes (Go to Q43) 2 = No (Go to Q46) 3 = Don't know (Go to Q46)
98	<i>C2SMKFRQ</i> Baseline Survey: Current Smoker Question (Q43)	Num	4	Beneficiary's response to Q43 from the <i>Cohort II Baseline</i> survey: <i>Do you now smoke every day, some days, or not at all?</i> 1 = Every day (Go to Q45) 2 = Some days (Go to Q45) 3 = Not at all (Go to Q44) 4 = Don't know (Go to Q46)
99	<i>C2DRSQT</i> Baseline Survey: Quit Smoking Question (Q44)	Num	4	Beneficiary's response to Q44 from the <i>Cohort II Baseline</i> survey: <i>How long has it been since you quit smoking cigarettes?</i> 1 = Less than 6 months (Go to Q45) 2 = 6 months or more (Go to Q46) 3 = Don't know (Go to Q46)
100	<i>C2QSMKAD</i> Baseline Survey: Smoking Advice Question (Q45)	Num	4	Beneficiary's response to Q45 from the <i>Cohort II Baseline</i> survey: <i>In the last 6 months, on how many visits were you advised to quit smoking by a doctor or other health provider in your plan?</i> 1 = None 2 = 1 visit 3 = 2 to 4 visits 4 = 5 to 9 visits 5 = 10 or more visits 6 = I had no visits in the last 6 months
101	<i>C2BRTHYR</i> Baseline Survey: Survey Reported Year of Birth Question (Q46)	Num	8	Beneficiary's response to Q46 from the <i>Cohort II Baseline</i> survey: <i>In what year were you born?</i>
102	<i>C2SV_GND</i> Baseline Survey: Survey Reported Gender Question (Q47)	Num	4	Beneficiary's response to Q47 from the <i>Cohort II Baseline</i> survey: <i>Are you male or female?</i> 1 = Male 2 = Female

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103	<i>C2HISPAN</i> Baseline Survey: Hispanic Question (Q48)	Num	4	Beneficiary's response to Q48 from the <i>Cohort II Baseline</i> survey: <i>Are you of Hispanic or Spanish family background?</i> 1 = Yes 2 = No
104	<i>C2SV_RAC</i> Baseline Survey: Survey Reported Race Question (Q49)	Num	4	Beneficiary's response to Q49 from the <i>Cohort II Baseline</i> survey: <i>How would you describe your race?</i> 1 = American Indian or Alaskan Native 2 = Asian or Pacific Islander 3 = Black or African American 4 = White 5 = Another race or multiracial
105	<i>C2MARITL</i> Baseline Survey: Marital Status Question (Q50)	Num	4	Beneficiary's response to Q50 from the <i>Cohort II Baseline</i> survey: <i>What is your current marital status?</i> 1 = Married 2 = Divorced 3 = Separated 4 = Widowed 5 = Never married
106	<i>C2EDUC</i> Baseline Survey: Education Question (Q51)	Num	4	Beneficiary's response to Q51 from the <i>Cohort II Baseline</i> survey: <i>What is the highest grade or level of school that you have completed?</i> 1 = 8 th grade or less 2 = Some high school, but did not graduate 3 = High school graduate or GED 4 = Some college or 2 year degree 5 = 4 year college graduate 6 = More than a 4 year college degree
107	<i>C2HMOWN</i> Baseline Survey: Housing Question (Q52)	Num	4	Beneficiary's response to Q52 from the <i>Cohort II Baseline</i> survey: <i>Is the house or apartment you currently live in:</i> 1 = Owned or being bought by you 2 = Owned or being bought by someone in your family other than you 3 = Rented for money 4 = Not owned and one in which you live without payment of rent
108	<i>C2RTRCOM</i> Baseline Survey: Retirement Community Question (Q53)	Num	4	Beneficiary's response to Q53 from the <i>Cohort II Baseline</i> survey: <i>Is this house or apartment in a retirement community, building or complex?</i> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
109	<i>C2MDSVPV</i> Baseline Survey: Retirement Community Medical Services Question (Q54)	Num	4	Beneficiary's response to Q54 from the <i>Cohort II Baseline</i> survey: <i>If you answered "yes" to question 53 above,</i> <i>Does this retirement community/building/facility provide medical services?</i> 1 = Yes 2 = No
110	<i>C2WHOCMP</i> Baseline Survey: Who Completed this Survey Question (Q55)	Num	4	Beneficiary's response to Q55 from the <i>Cohort II Baseline</i> survey: <i>Who completed this survey form?</i> 1 = Person to whom survey was addressed 2 = Family member or relative of person to whom the survey was addressed 3 = Friend of person to whom the survey was addressed 4 = Professional caregiver of person to whom the survey was addressed
111	<i>C2HHINC</i> Baseline Survey: Household Income Question (Q57)	Num	4	Beneficiary's response to Q57 from the <i>Cohort II Baseline</i> survey: <i>Which of the following categories best represents the combined income for all family members in your household for the past 12 months?</i> 1 = Less than \$5,000 2 = \$5,000 - \$9,999 3 = \$10,000 - \$19,999 4 = \$20,000 - \$29,999 5 = \$30,000 - \$39,999 6 = \$40,000 - \$49,999 7 = \$50,000 - \$79,999 8 = \$80,000 - \$99,999 9 = \$100,000 or more 10 = Don't know
112	<i>R2GENHTH</i> Follow Up Survey: General Health Question (Q1)	Num	8	Beneficiary's response to Q1 from the <i>Cohort II Follow Up</i> survey: <i>In general, would you say your health is:</i> 1 = Excellent 2 = Very good 3 = Good 4 = Fair 5 = Poor
113	<i>R2HTHTRN</i> Follow Up Survey: Health Transition Question (Q2)	Num	8	Beneficiary's response to Q2 from the <i>Cohort II Follow Up</i> survey: <i>Compared to one year ago, how would you rate your health in general now?</i> 1 = Much better now than 1 year ago 2 = Somewhat better now than 1 year ago 3 = About the same as 1 year ago 4 = Somewhat worse now than 1 year ago 5 = Much worse now than 1 year ago

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114	R2VIGACT Follow Up Survey: Vigorous Activities Question (Q3a)	Num	8	Beneficiary's response to Q3a from the <i>Cohort II Follow Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Vigorous activities</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
115	R2MODACT Follow Up Survey: Moderate Activities Question (Q3b)	Num	8	Beneficiary's response to Q3b from the <i>Cohort II Follow Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Moderate activities</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
116	R2LIFT Follow Up Survey: Lifting Groceries Question (Q3c)	Num	8	Beneficiary's response to Q3c from the <i>Cohort II Follow Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Lifting or Carrying Groceries</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
117	R2CLMBSV Follow Up Survey: Climbing Several Flights of Stairs Question (Q3d)	Num	8	Beneficiary's response to Q3d from the <i>Cohort II Follow Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Climbing several flights of stairs</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
118	R2CLMBON Follow Up Survey: Climbing One Flight of Stairs Question (Q3e)	Num	8	Beneficiary's response to Q3e from the <i>Cohort II Follow Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Climbing one flight of stairs</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
119	R2BEND Follow Up Survey: Bending, Kneeling, or Stooping Question (Q3f)	Num	8	Beneficiary's response to Q3f from the <i>Cohort II Follow Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Bending, kneeling, or stooping</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
120	<i>R2WLKMI</i> Follow Up Survey: Walking More than a Mile Question (Q3g)	Num	8	Beneficiary's response to Q3g from the <i>Cohort II Follow Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Walking more than a mile</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
121	<i>R2WLKBKS</i> Follow Up Survey: Walking Several Blocks Question (Q3h)	Num	8	Beneficiary's response to Q3h from the <i>Cohort II Follow Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Walking several blocks</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
122	<i>R2WLK1BK</i> Follow Up Survey: Walking One Block Question (Q3i)	Num	8	Beneficiary's response to Q3i from the <i>Cohort II Follow Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Walking one block</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
123	<i>R2BATHDR</i> Follow Up Survey: Bathing and Dressing Question (Q3j)	Num	8	Beneficiary's response to Q3j from the <i>Cohort II Follow Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Bathing or dressing yourself</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
124	<i>R2PCUTTM</i> Follow Up Survey: Physical Health Limiting Time Spent on Activities Question (Q4a)	Num	8	Beneficiary's response to Q4a from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of your physical health?</i> <u>Cut down on the amount of time you spent on work or other activities</u> 1 = Yes 2 = No
125	<i>R2PACMPL</i> Follow Up Survey: Physical Health Limiting Amount Accomplished Question (Q4b)	Num	8	Beneficiary's response to Q4b from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of your physical health?</i> <u>Accomplished less than you would like</u> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
126	R2PLMTKW Follow Up Survey: Physical Health Limiting the Kind of Activities Question (Q4c)	Num	8	Beneficiary's response to Q4c from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of your physical health?</i> <u>Were limited in the kind of work or other activities</u> 1 = Yes 2 = No
127	R2PDIFWK Follow Up Survey: Physical Health Causing Difficulty Performing Activities Question (Q4d)	Num	8	Beneficiary's response to Q4d from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of your physical health?</i> <u>Had difficulty performing the work or other activities</u> 1 = Yes 2 = No
128	R2ECUTTM Follow Up Survey: Emotional Problems Limiting Time Spent on Activities Question (Q5a)	Num	8	Beneficiary's response to Q5a from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i> <u>Cut down on the amount of time you spent on work or other activities</u> 1 = Yes 2 = No
129	R2EACMPL Follow Up Survey: Emotional Problems Limiting Amount Accomplished Question (Q5b)	Num	8	Beneficiary's response to Q5b from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i> <u>Accomplished less than you would like</u> 1 = Yes 2 = No
130	R2ENTCRF Follow Up Survey: Emotional Problems Limiting Carefulness Question (Q5c)	Num	8	Beneficiary's response to Q5c from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i> <u>Didn't do work or other activities as carefully as usual</u> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
131	<i>R2SOCLMT</i> Follow Up Survey: Extent Health Interfering with Social Activities Question (Q6)	Num	8	Beneficiary's response to Q6 from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities...?</i> 1 = Not at all 2 = Slightly 3 = Moderately 4 = Quite a bit 5 = Extremely
132	<i>R2PNMAGT</i> Follow Up Survey: Bodily Pain Question (Q7)	Num	8	Beneficiary's response to Q7 from the <i>Cohort II Follow Up</i> survey: <i>How much bodily pain have you had during the past 4 weeks?</i> 1 = None 2 = Very mild 3 = Mild 4 = Moderate 5 = Severe 6 = Very severe
133	<i>R2PNINTF</i> Follow Up Survey: Pain Interfering with Work Question (Q8)	Num	8	Beneficiary's response to Q8 from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how much did pain interfere with your normal work?</i> 1 = Not at all 2 = A little bit 3 = Moderately 4 = Quite a bit 5 = Extremely
134	<i>R2FULPEP</i> Follow Up Survey: Full of Pep Question (Q9a)	Num	8	Beneficiary's response to Q9a from the <i>Cohort II Follow Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel full of pep?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
135	<i>R2NERVS</i> Follow Up Survey: Nervous Question (Q9b)	Num	8	Beneficiary's response to Q9b from the <i>Cohort II Follow Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you been a very nervous person?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
136	<i>R2DNDMPS</i> Follow Up Survey: Down in the Dumps Question (Q9c)	Num	8	Beneficiary's response to Q9c from the <i>Cohort II Follow Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt so down in the dumps that nothing could cheer you up?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
137	<i>R2PCEFUL</i> Follow Up Survey: Calm and Peaceful Question (Q9d)	Num	8	Beneficiary's response to Q9d from the <i>Cohort II Follow Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt calm and peaceful?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
138	<i>R2ENERGY</i> Follow Up Survey: Lots of Energy Question (Q9e)	Num	8	Beneficiary's response to Q9e from the <i>Cohort II Follow Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you have a lot of energy?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
139	<i>R2BLSAD</i> Follow Up Survey: Downhearted and Blue Question (Q9f)	Num	8	Beneficiary's response to Q9f from the <i>Cohort II Follow Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt downhearted and blue?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
140	<i>R2WRNOUT</i> Follow Up Survey: Feeling Worn Out Question (Q9g)	Num	8	Beneficiary's response to Q9g from the <i>Cohort II Follow Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel worn out?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
141	<i>R2HAPPY</i> Follow Up Survey: Happy Question (Q9h)	Num	8	Beneficiary's response to Q9h from the <i>Cohort II Follow Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you been a happy person?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
142	<i>R2TIRED</i> Follow Up Survey: Feeling Tired Question (Q9i)	Num	8	Beneficiary's response to Q9i from the <i>Cohort II Follow Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel tired?</u> 1 = All of the time 2 = Most of the time 3 = A good bit of the time 4 = Some of the time 5 = A little of the time 6 = None of the time
143	<i>R2SCLACT</i> Follow Up Survey: Amount of Time Health Interfering with Social Activities Question (Q10)	Num	8	Beneficiary's response to Q10 from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities?</i> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
144	R2SCKESY Follow Up Survey: Sick Easier Question (Q11a)	Num	8	Beneficiary's response to Q11a from the <i>Cohort II Follow Up</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I seem to get sick a little easier than other people</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
145	R2ASHLTH Follow Up Survey: As Healthy Question (Q11b)	Num	8	Beneficiary's response to Q11b from the <i>Cohort II Follow Up</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I am as healthy as anybody I know</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
146	R2HTHWSE Follow Up Survey: Future Health Question (Q11c)	Num	8	Beneficiary's response to Q11c from the <i>Cohort II Follow Up</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I expect my health to get worse</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
147	R2HTHEXT Follow Up Survey: Excellent Health Question (Q11d)	Num	8	Beneficiary's response to Q11d from the <i>Cohort II Follow Up</i> survey: <i>How true or false is each of the following statements for you?</i> <u>My health is excellent</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
148	R2DIFBTH Follow Up Survey: Bathing Question (Q12a)	Num	8	Beneficiary's response to Q12a from the <i>Cohort II Follow Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Bathing</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
149	R2DIFDRS Follow Up Survey: Dressing Question (Q12b)	Num	8	Beneficiary's response to Q12b from the <i>Cohort II Follow Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Dressing</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
150	R2DIFEAT Follow Up Survey: Eating Question (Q12c)	Num	8	Beneficiary's response to Q12c from the <i>Cohort II Follow Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Eating</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
151	R2DIFCHR Follow Up Survey: Getting In/Out of Chairs Question (Q12d)	Num	8	Beneficiary's response to Q12d from the <i>Cohort II Follow Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Getting in or out of chairs</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
152	R2DIFWLK Follow Up Survey: Walking Question (Q12e)	Num	8	Beneficiary's response to Q12e from the <i>Cohort II Follow Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Walking</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
153	R2DIFTOL Follow Up Survey: Using the Toilet Question (Q12f)	Num	8	Beneficiary's response to Q12f from the <i>Cohort II Follow Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Using the toilet</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
154	R2CPNEXR Follow Up Survey: Chest Pain/Pressure on Exertion Question (Q13a)	Num	8	Beneficiary's response to Q13a from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how often have you had any of the following problems</i> <u>Chest pain or pressure when you exercise</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
155	R2CPNRST Follow Up Survey: Chest Pain/Pressure at Rest Question (Q13b)	Num	8	Beneficiary's response to Q13b from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how often have you had any of the following problems</i> <u>Chest pain or pressure when resting</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
156	R2SOBFLT Follow Up Survey: Orthopnea Question (Q14a)	Num	8	Beneficiary's response to Q14a from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When lying down flat</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
157	R2SOBSIT Follow Up Survey: Dyspnea while Sitting/Resting Question (Q14b)	Num	8	Beneficiary's response to Q14b from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When sitting or resting</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
158	<i>R2SOBWLK</i> Follow Up Survey: Dyspnea when Walking Less than One Block Question (Q14c)	Num	8	Beneficiary's response to Q14c from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When walking less than one block</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
159	<i>R2SOBSTR</i> Follow Up Survey: Dyspnea when Climbing One Flight of Stairs Question (Q14d)	Num	8	Beneficiary's response to Q14d from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When climbing one flight of stairs</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
160	<i>R2NMBFET</i> Follow Up Survey: Numbness in Feet Question (Q15a)	Num	8	Beneficiary's response to Q15a from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Numbness or loss of feeling in your feet</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
161	<i>R2ANKSWL</i> Follow Up Survey: Ankle/Leg Edema Question (Q15b)	Num	8	Beneficiary's response to Q15b from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Ankles/legs that swell as the day goes on</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
162	R2TINGFT Follow Up Survey: Foot Tingling/Burning Question (Q15c)	Num	8	Beneficiary's response to Q15c from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Tingling or burning in your feet especially at night</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
163	R2DECSNS Follow Up Survey: Decreased Temperature Sensation in Feet Question (Q15d)	Num	8	Beneficiary's response to Q15d from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Decreased ability to feel hot or cold with your feet</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
164	R2DECHEL Follow Up Survey: Sores/Wounds on Feet Question (Q15e)	Num	8	Beneficiary's response to Q15e from the <i>Cohort II Follow Up</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Sores or wounds on your feet that did not heal</u> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
165	R2PARLYS Follow Up Survey: Hemiparalysis/Weakness Question (Q16a)	Num	8	Beneficiary's response to Q16a from the <i>Cohort II Follow Up</i> survey: <i>Have you ever had paralysis or weakness on one side of the body?</i> 1 = Yes, I have it 2 = Yes, but it went away 3 = No
166	R2LSTTLK Follow Up Survey: Lost Ability to Talk Question (Q16b)	Num	8	Beneficiary's response to Q16b from the <i>Cohort II Follow Up</i> survey: <i>Have you ever lost the ability to talk?</i> 1 = Yes, I have lost it 2 = Yes, but it returned 3 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
167	<i>R2RDNEW</i> Follow Up Survey: Vision Question (Q17)	Num	8	Beneficiary's response to Q17 from the <i>Cohort II Follow Up</i> survey: <i>Can you see well enough to read newspaper print?</i> 1 = Yes 2 = No
168	<i>R2HRMOST</i> Follow Up Survey: Hearing Question (Q18)	Num	8	Beneficiary's response to Q18 from the <i>Cohort II Follow Up</i> survey: <i>Can you hear most of the things people say?</i> 1 = Yes 2 = No
169	<i>R2ACDING</i> Follow Up Survey: Acid Indigestion Question (Q19)	Num	8	Beneficiary's response to Q19 from the <i>Cohort II Follow Up</i> survey: <i>Do you now have acid indigestion or heartburn?</i> 1 = Yes 2 = No
170	<i>R2CTRURN</i> Follow Up Survey: Difficulty Controlling Urination Question (Q20)	Num	8	Beneficiary's response to Q20 from the <i>Cohort II Follow Up</i> survey: <i>Do you have difficulty controlling urination?</i> 1 = Yes 2 = No
171	<i>R2HIGHBP</i> Follow Up Survey: Hypertension Question (Q21)	Num	8	Beneficiary's response to Q21 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Hypertension or high blood pressure</u> 1 = Yes 2 = No
172	<i>R2ANGCAD</i> Follow Up Survey: Angina/Coronary Artery Disease Question (Q22)	Num	8	Beneficiary's response to Q22 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Angina or coronary artery disease</u> 1 = Yes 2 = No
173	<i>R2CHF</i> Follow Up Survey: Congestive Heart Failure Question (Q23)	Num	8	Beneficiary's response to Q23 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Congestive heart failure</u> 1 = Yes 2 = No
174	<i>R2AMI</i> Follow Up Survey: Myocardial Infarction Question (Q24)	Num	8	Beneficiary's response to Q24 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>A myocardial infarction or heart attack</u> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
175	<i>R2OTHRT</i> Follow Up Survey: Other Heart Conditions Question (Q25)	Num	8	Beneficiary's response to Q25 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Other heart conditions...</u> 1 = Yes 2 = No
176	<i>R2STROKE</i> Follow Up Survey: Stroke Question (Q26)	Num	8	Beneficiary's response to Q26 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Stroke</u> 1 = Yes 2 = No
177	<i>R2COPD_E</i> Follow Up Survey: COPD Question (Q27)	Num	8	Beneficiary's response to Q27 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Emphysema, asthma, or COPD</u> 1 = Yes 2 = No
178	<i>R2GI_ETC</i> Follow Up Survey: Inflammatory Bowel Disease Question (Q28)	Num	8	Beneficiary's response to Q28 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Crohn's disease, ulcerative colitis, or inflammatory bowel disease</u> 1 = Yes 2 = No
179	<i>R2ATHHIP</i> Follow Up Survey: Arthritis of Hip/Knee Question (Q29)	Num	8	Beneficiary's response to Q29 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Arthritis of the hip or knee</u> 1 = Yes 2 = No
180	<i>R2ATHHAN</i> Follow Up Survey: Arthritis of Hand/Wrist Question (Q30)	Num	8	Beneficiary's response to Q30 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Arthritis of the hand or wrist</u> 1 = Yes 2 = No
181	<i>R2SCIATC</i> Follow Up Survey: Sciatica Question (Q31)	Num	8	Beneficiary's response to Q31 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Sciatica</u> 1 = Yes 2 = No
182	<i>R2DIABET</i> Follow Up Survey: Diabetes Question (Q32)	Num	8	Beneficiary's response to Q32 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Diabetes, high blood sugar, or sugar in the urine</u> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
183	R2ANYCAN Follow Up Survey: Any Cancer Question (Q33)	Num	8	Beneficiary's response to Q33 from the <i>Cohort II Follow Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Any cancer (other than skin cancer)</u> 1 = Yes 2 = No
184	R2ARTHPN Follow Up Survey: Arthritis Pain Question (Q34)	Num	8	Beneficiary's response to Q34 from the <i>Cohort II Follow Up</i> survey: <i>If you answered "yes" to questions 29 or 30 above (that you have arthritis), During the past 4 weeks, how would you describe the arthritis pain you usually had?</i> 1 = None 2 = Very mild 3 = Mild 4 = Moderate 5 = Severe
185	R2COLNCA Follow Up Survey: Colorectal Cancer Treatment Question (Q35a)	Num	8	Beneficiary's response to Q35a from the <i>Cohort II Follow Up</i> survey: <i>If you answered "yes" to question 33 above (that you have had cancer), Are you currently under treatment for:</i> <u>Colon or rectal cancer</u> 1 = Yes 2 = No
186	R2LUNGCA Follow Up Survey: Lung Cancer Treatment Question (Q35b)	Num	8	Beneficiary's response to Q35b from the <i>Cohort II Follow Up</i> survey: <i>If you answered "yes" to question 33 above (that you have had cancer), Are you currently under treatment for:</i> <u>Lung cancer</u> 1 = Yes 2 = No
187	R2BRSTCA Follow Up Survey: Breast Cancer Treatment Question (Q35c)	Num	8	Beneficiary's response to Q35c from the <i>Cohort II Follow Up</i> survey: <i>If you answered "yes" to question 33 above (that you have had cancer), Are you currently under treatment for:</i> <u>Breast cancer</u> 1 = Yes 2 = No
188	R2PROSCA Follow Up Survey: Prostate Cancer Treatment Question (Q35d)	Num	8	Beneficiary's response to Q35d from the <i>Cohort II Follow Up</i> survey: <i>If you answered "yes" to question 33 above (that you have had cancer), Are you currently under treatment for:</i> <u>Prostate cancer</u> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
189	R2BACKPN Follow Up Survey: Low Back Pain Question (Q36)	Num	8	Beneficiary's response to Q36 from the <i>Cohort II Follow Up</i> survey: <i>In the past 4 weeks, how often has low back pain interfered with your usual daily activities?</i> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
190	R2NUMBLG Follow Up Survey: Pain, Numbness, Tingling Down Leg Question (Q37)	Num	8	Beneficiary's response to Q37 from the <i>Cohort II Follow Up</i> survey: <i>In the past 4 weeks, how often did you have pain, numbness, or tingling that travels down your leg and below your knee?</i> 1 = All of the time 2 = Most of the time 3 = Some of the time 4 = A little of the time 5 = None of the time
191	R2FELTSD Follow Up Survey: Two Weeks of Depression Question (Q38)	Num	8	Beneficiary's response to Q38 from the <i>Cohort II Follow Up</i> survey: <i>In the past year, have you had 2 weeks or more during which you felt sad, blue or depressed; or when you lost interest or pleasure in things that you usually cared about or enjoyed?</i> 1 = Yes 2 = No
192	R2DEPMCH Follow Up Survey: Depression Much of the Time Question (Q39)	Num	8	Beneficiary's response to Q39 from the <i>Cohort II Follow Up</i> survey: <i>In the past year, have you felt depressed or sad much of the time?</i> 1 = Yes 2 = No
193	R2DEP2YR Follow Up Survey: Depression Most of the Time Question (Q40)	Num	8	Beneficiary's response to Q40 from the <i>Cohort II Follow Up</i> survey: <i>Have you ever had 2 years or more in your life when you felt depressed or sad most days, even if you felt okay sometimes?</i> 1 = Yes 2 = No

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194	<i>R2CMPHTH</i> Follow Up Survey: Comparative Health Question (Q41)	Num	8	Beneficiary's response to Q41 from the <i>Cohort II Follow Up</i> survey: <i>In general, compared to other people your age, would you say that your health is:</i> 1 = Excellent 2 = Very good 3 = Good 4 = Fair 5 = Poor
195	<i>R2SMK100</i> Follow Up Survey: Smoked 100 Cigarettes Question (Q42)	Num	8	Beneficiary's response to Q42 from the <i>Cohort II Follow Up</i> survey: <i>Have you ever smoked at least 100 cigarettes in your entire life?</i> 1 = Yes (Go to Q43) 2 = No (Go to Q46) 3 = Don't know (Go to Q46)
196	<i>R2SMKFRQ</i> Follow Up Survey: Current Smoker Question (Q43)	Num	8	Beneficiary's response to Q43 from the <i>Cohort II Follow Up</i> survey: <i>Do you now smoke every day, some days, or not at all?</i> 1 = Every day (Go to Q45) 2 = Some days (Go to Q45) 3 = Not at all (Go to Q44) 4 = Don't know (Go to Q46)
197	<i>R2DRSQT</i> Follow Up Survey: Quit Smoking Question (Q44)	Num	8	Beneficiary's response to Q44 from the <i>Cohort II Follow Up</i> survey: <i>How long has it been since you quit smoking cigarettes?</i> 1 = Less than 6 months (Go to Q45) 2 = 6 months or more (Go to Q46) 3 = Don't know (Go to Q46)
198	<i>R2QSMKAD</i> Follow Up Survey: Smoking Advice Question (Q45)	Num	8	Beneficiary's response to Q45 from the <i>Cohort II Follow Up</i> survey: <i>In the last 6 months, on how many visits were you advised to quit smoking by a doctor or other health provider in your plan?</i> 1 = None 2 = 1 visit 3 = 2 to 4 visits 4 = 5 to 9 visits 5 = 10 or more visits 6 = I had no visits in the last 6 months
199	<i>R2BRTHYR</i> Follow Up Survey: Survey Reported Year of Birth Question (Q46)	Char	4	Beneficiary's response to Q46 from the <i>Cohort II Follow Up</i> survey: <i>In what year were you born?</i>
200	<i>R2SV_GND</i> Follow Up Survey: Survey Reported Gender Question (Q47)	Num	8	Beneficiary's response to Q47 from the <i>Cohort II Follow Up</i> survey: <i>Are you male or female?</i> 1 = Male 2 = Female

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201	<i>R2HISPAN</i> Follow Up Survey: Hispanic Question (Q48)	Num	8	Beneficiary's response to Q48 from the <i>Cohort II Follow Up</i> survey: <i>Are you of Hispanic or Spanish family background?</i> 1 = Yes 2 = No
202	<i>R2SV_RAC</i> Follow Up Survey: Survey Reported Race Question (Q49)	Num	8	Beneficiary's response to Q49 from the <i>Cohort II Follow Up</i> survey: <i>How would you describe your race?</i> 1 = American Indian or Alaskan Native 2 = Asian or Pacific Islander 3 = Black or African American 4 = White 5 = Another race or multiracial
203	<i>R2MARITL</i> Follow Up Survey: Marital Status Question (Q50)	Num	8	Beneficiary's response to Q50 from the <i>Cohort II Follow Up</i> survey: <i>What is your current marital status?</i> 1 = Married 2 = Divorced 3 = Separated 4 = Widowed 5 = Never married
204	<i>R2EDUC</i> Follow Up Survey: Education Question (Q51)	Num	8	Beneficiary's response to Q51 from the <i>Cohort II Follow Up</i> survey: <i>What is the highest grade or level of school that you have completed?</i> 1 = 8 th grade or less 2 = Some high school, but did not graduate 3 = High school graduate or GED 4 = Some college or 2 year degree 5 = 4 year college graduate 6 = More than a 4 year college degree
205	<i>R2HMOWN</i> Follow Up Survey: Housing Question (Q52)	Num	8	Beneficiary's response to Q52 from the <i>Cohort II Follow Up</i> survey: <i>Is the house or apartment you currently live in:</i> 1 = Owned or being bought by you 2 = Owned or being bought by someone in your family other than you 3 = Rented for money 4 = Not owned and one in which you live without payment of rent 5 = None of the above
206	<i>R2RTRCOM</i> Follow Up Survey: Retirement Community Question (Q53)	Num	8	Beneficiary's response to Q53 from the <i>Cohort II Follow Up</i> survey: <i>Is this house or apartment in a retirement community, building or complex?</i> 1 = Yes 2 = No

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
207	<i>R2MDSVPV</i> Follow Up Survey: Retirement Community Medical Services Question (Q54)	Num	8	Beneficiary's response to Q54 from the <i>Cohort II Follow Up</i> survey: <i>If you answered "yes" to question 53 above, Does this retirement community/building/facility provide medical services?</i> 1 = Yes 2 = No
208	<i>R2WHOCMP</i> Follow Up Survey: Who Completed this Survey Question (Q55)	Num	8	Beneficiary's response to Q55 from the <i>Cohort II Follow Up</i> survey: <i>Who completed this survey form?</i> 1 = Person to whom survey was addressed (Go to Q57) 2 = Family member or relative of person to whom the survey was addressed 3 = Friend of person to whom the survey was addressed 4 = Professional caregiver of person to whom the survey was addressed
209	<i>R2HHINC</i> Follow Up Survey: Household Income Question (Q57)	Num	8	Beneficiary's response to Q57 from the <i>Cohort II Follow Up</i> survey: <i>Which of the following categories best represents the combined income for all family members in your household for the past 12 months?</i> 1 = Less than \$5,000 2 = \$5,000 - \$9,999 3 = \$10,000 - \$19,999 4 = \$20,000 - \$29,999 5 = \$30,000 - \$39,999 6 = \$40,000 - \$49,999 7 = \$50,000 - \$79,999 8 = \$80,000 - \$99,999 9 = \$100,000 or more 10 = Don't know
210	<i>C2DISP</i> Survey Response Indicator for Mail/Telephone Responses at Baseline	Num	8	Beneficiary completed a: 1 = Mail Survey at Baseline 2 = Telephone Survey at Baseline
211	<i>R2DISP</i> Survey Response Indicator for Mail/Telephone Responses at Follow Up	Num	8	Beneficiary completed a: 1 = Mail Survey at Follow Up 2 = Telephone Survey at Follow Up
212	<i>C2ESVDAT</i> Date Baseline Survey Completed	Num	8	MMDDYY10. format
213	<i>R2ESVDAT</i> Date Follow Up Survey Completed	Num	8	MMDDYY10. format

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
214	<i>C2SVLANG</i> Survey Language at Baseline	Num	4	<i>Cohort II Baseline</i> Survey Language 1 = English 2 = Spanish 3 = Not Applicable
215	<i>R2SVLANG</i> Survey Language at Follow Up	Num	8	<i>Cohort II Follow Up</i> Survey Language 1 = English 2 = Spanish 3 = Not Applicable 4 = Chinese
216	<i>C2VENDOR</i> Baseline Survey: Survey Vendor	Num	4	<i>Cohort II Baseline</i> Survey Vendor: 1 = DSS 2 = GHS 3 = HCIA (Solucient) 4 = Market Facts 5 = NRC 6 = Response Analysis
217	<i>R2VENDOR</i> Follow Up Survey: Survey Vendor	Num	8	<i>Cohort II Follow Up</i> Survey Vendor: 1 = DSS 2 = GHS 3 = Solucient 4 = Market Facts
218	<i>R2PROXST</i> Follow Up Survey: Proxy Status Indicator that Combines Baseline and Follow Up Information on Who Completed the Surveys	Num	8	<i>Cohort II Follow Up</i> Proxy Status: 1 = Member at Baseline and Member at Follow Up 2 = Member at Baseline and Proxy at Follow Up 3 = Proxy at Baseline and Member at Follow Up 4 = Proxy at Baseline and Same Proxy at Follow Up 5 = Proxy at Baseline and Different Proxy at Follow Up 6 = Not Enough Information at Baseline 7 = Not Enough Information at Follow Up
219	<i>C2BASPCS</i> Baseline PCS Score	Num	4	Beneficiary's Baseline PCS Score
220	<i>C2BASMCS</i> Baseline MCS Score	Num	4	Beneficiary's Baseline MCS Score
221	<i>R2FOLPCS</i> Follow Up PCS Score	Num	8	Beneficiary's Follow Up PCS Score
222	<i>R2FOLMCS</i> Follow Up MCS Score	Num	8	Beneficiary's Follow Up MCS Score

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
223	<i>AHICNUM</i> Health Insurance Claim (HIC) Number	Char	12	Unique identifier used to identify each beneficiary. This information is derived from CMS' Enrollment Data Base (EDB). This was the beneficiary level unit of analysis for the Performance Measurement Report.
224	<i>C2LNAME</i> Beneficiary's Last Name	Char	12	Beneficiary's last name from the baseline member level record.
225	<i>C2MI</i> Beneficiary's Middle Initial	Char	1	Beneficiary's middle initial from the baseline member level record.
226	<i>C2FNAME</i> Beneficiary's First Name	Char	15	Beneficiary's first name from the baseline member level record.
227	<i>C2ADDRSS</i> Beneficiary's Baseline Mailing Address	Char	132	Beneficiary's mailing address from the baseline member level record.
228	<i>C2STATE</i> Beneficiary's Baseline Social Security Administration (SSA) State Code	Char	2	Beneficiary's SSA state code from the baseline member level record.
229	<i>C2COUNTY</i> Beneficiary's Baseline SSA County Code	Char	3	Beneficiary's SSA county code from the baseline member level record.
230	<i>C2STABV</i> Beneficiary's Baseline SSA State Two Letter Abbreviation	Char	2	Beneficiary's two letter state abbreviation based on the baseline SSA state code.
231	<i>C2CTNAME</i> Beneficiary's Baseline SSA County Name	Char	25	Beneficiary's county name based on the baseline SSA county code.
232	<i>C2ZIPCOD</i> Beneficiary's Baseline ZIP Code	Char	9	Beneficiary's ZIP code from the baseline member level record.
233	<i>R2ADDRSS</i> Beneficiary's Follow Up Mailing Address	Char	132	Beneficiary's mailing address from the follow up member level record.
234	<i>R2STATE</i> Beneficiary's Follow Up SSA State Code	Char	2	Beneficiary's SSA state code from the follow up member level record.
235	<i>R2COUNTY</i> Beneficiary's Follow Up SSA County Code	Char	3	Beneficiary's SSA county code from the follow up member level record.
236	<i>R2STABV</i> Beneficiary's Follow Up SSA State Two Letter Abbreviation	Char	2	Beneficiary's two letter state abbreviation based on the follow up SSA state code.
237	<i>R2CTNAME</i> Beneficiary's Follow Up SSA County Name	Char	25	Beneficiary's county name based on the follow up SSA county code.
238	<i>R2ZIPCOD</i> Beneficiary's Follow Up ZIP Code	Char	5	Beneficiary's ZIP code from the follow up member level record.

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239	<i>C2RACE</i> Beneficiary's Baseline Race	Num	8	Beneficiary's race from the baseline member level record. This information is derived from CMS' Enrollment Database (EDB). 0 = Unknown 1 = White 2 = Black 3 = Other 4 = Asian 5 = Hispanic 6 = North American Native
240	<i>C2GENDER</i> Beneficiary's Baseline Gender (CMS)	Num	8	Beneficiary's gender from the baseline member level record. This information is derived from CMS' EDB. 1 = Male 2 = Female
241	<i>C2EDOB</i> Beneficiary's Baseline Date of Birth	Num	8	Beneficiary's date of birth (DOB) from the baseline member level record. This information is derived from CMS' EDB. MMDDYY10. format
242	<i>C2ESRDID</i> Beneficiary's Baseline ESRD Status	Num	4	Beneficiary's End Stage Renal Disease (ESRD) status at baseline. This information is derived from CMS' EDB. 0 = No ESRD 1 = ESRD
243	<i>C2INSTUT</i> Beneficiary's Baseline Institutional Status	Num	4	Beneficiary's Institutional status at baseline. This information is derived from CMS' EDB. 0 = Out of institution 1 = Institutionalized 2 = Eligible for nursing home care
244	<i>C2HOSPIC</i> Beneficiary's Baseline Hospice Status	Num	4	Beneficiary's Hospice status at baseline. This information is derived from CMS' EDB. 0 = No hospice start date present 1 = Hospice start date present
245	<i>C2MEDICD</i> Beneficiary's Baseline Medicaid Status	Num	4	Beneficiary's Medicaid status at baseline. This information is derived from CMS' EDB. 0 = Out of Medicaid 1 = In Medicaid
246	<i>C2RSENT</i> Beneficiary's Baseline Reason for Entitlement	Num	4	Beneficiary's reason for entitlement at baseline. This information is derived from CMS' EDB. 10 = Aged without ESRD 11 = Aged with ESRD 20 = Disabled without ESRD 21 = Disabled with ESRD 31 = ESRD only

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
247	<i>C2NMCOMP</i> Baseline Survey: Name of Person Completing Question (Q56)	Char	51	Beneficiary's response to Q56 from the <i>Cohort II Baseline</i> survey: <i>What is the name of the person who completed this survey form?</i>
248	<i>R2RACE</i> Beneficiary's Follow Up Race	Num	8	Beneficiary's race from the follow up member level record. This information is derived from CMS' EDB. 0 = Unknown 1 = White 2 = Black 3 = Other 4 = Asian 5 = Hispanic 6 = North American Native
249	<i>R2GENDER</i> Beneficiary's Follow Up Gender	Num	8	Beneficiary's gender from the follow up member level record. This information is derived from CMS' EDB. 1 = Male 2 = Female
250	<i>R2EDOB</i> Beneficiary's Follow Up Date of Birth	Num	8	Beneficiary's date of birth (DOB) from the follow up member level record. This information is derived from CMS' EDB. MMDDYY10. format
251	<i>R2ESRDID</i> Beneficiary's Follow Up ESRD Status	Num	8	Beneficiary's End Stage Renal Disease (ESRD) status at follow up. This information is derived from CMS' EDB. 0 = No ESRD 1 = ESRD
252	<i>R2INSTUT</i> Beneficiary's Follow Up Institutional Status	Num	8	Beneficiary's Institutional status at follow up. This information is derived from CMS' EDB. 0 = Out of institution 1 = Institutionalized 2 = Eligible for nursing home care
253	<i>R2HOSPIC</i> Beneficiary's Follow Up Hospice Status	Num	8	Beneficiary's Hospice status at follow up. This information is derived from CMS' EDB. 0 = No hospice start date present 1 = Hospice start date present
254	<i>R2MEDICD</i> Beneficiary's Follow Up Medicaid Status	Num	8	Beneficiary's Medicaid status at follow up. This information is derived from CMS' EDB. 0 = Out of Medicaid 1 = In Medicaid

VAR #	VARIABLE NAME / DESCRIPTION	VAR TYPE	VAR LENGTH	ADDITIONAL INFORMATION AND VALID VALUES
255	<i>R2RSENT</i> Beneficiary's Follow Up Reason for Entitlement	Num	8	Beneficiary's reason for entitlement at follow up. This information is derived from CMS' EDB. 10 = Aged without ESRD 11 = Aged with ESRD 20 = Disabled without ESRD 21 = Disabled with ESRD 31 = ESRD only
256	<i>R2NMCOMP</i> Follow Up Survey: Name of Person Completing Question (Q56)	Char	50	Beneficiary's response to Q56 from the <i>Cohort II Follow Up</i> survey: <i>What is the name of the person who completed this survey form?</i>
257	<i>R2EDOD</i> Date of Death	Num	8	Beneficiary's date of death (DOD). This information is derived from CMS' EDB. MMDDYY10. format
258	<i>R2UNIQID</i> Unique Beneficiary ID	Char	6	Unique identification number assigned to each beneficiary in the analytic sample that was included in the M+CO data files (1 to 91,609). This ID will match the unique beneficiary ID that was assigned in the <i>Cohort II</i> Performance Measurement Data Files that were returned to the M+COs. <i>Note: beneficiaries who disenrolled from the plan subsequent to completing the baseline survey are not included in the M+CO file, however, they were included in the calculation of the performance measurement results.</i>
259	<i>R2ANALYT</i> Performance Measurement Analytic Sample Indicator	Num	8	Indicates status of the record in this analytic file 1 = Respondent 2 = Non-Respondent 3 = Invalid 4 = Dead 5 = Disenrolled